

**ABSTRACT OF THE DISCLOSURE**

The present invention relates to a method for providing synthesized clock synchronization reference signals in an asynchronous packet based network. Specifically, the present invention pertains to a method of using a timing reference signal as a synchronization reference for a synthesized signal of the same frequency for the purpose of providing synchronous analog communications, such as Voice Over Internet Protocol (VOIP). More specifically, the invention transmits reference signals in Ethernet packets which are then used by recipient devices to synthesize timing signals for synchronization purposes.